

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1626	((mns or mgs or Cas) or (manganese near3 sulf\$3) or (magnesium near3 sulf\$3) or (calcium near3 sulf\$3) or (mn near3 s) or (mg near3 s) or (ca near3 s)) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/25 20:02
L2	262	L1 and ((aluminum near3 nitride) or aln or (al near3 n))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/25 20:02
L3	33	L2 and @pd>"20060922"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/25 20:02
L4	157	257/e21.603.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/25 20:03
L5	135	L4 and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/25 20:03
L6	2	(L5 and ((aluminum near3 nitride) or aln or (al near3 n))) and @pd>"20060922"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/25 20:04
L7	35	3 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/25 20:04

## EAST Search History

S1	1056	257/200.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 18:20
S2	0	((metal near2 sulfide) with epitaxial) and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon)) and (ionic near3 (bond or bonding))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/26 15:13
S3	2	((metal near2 sulfide) with epitaxial) and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon)) and (ionic near3 (bond or bonding))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/26 15:14
S4	3	((metal near2 sulfide) with epitaxial) and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/26 15:20
S5	3	((metal near2 sulfide) same epitaxial) and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/26 15:21
S6	11	(metal near2 sulfide) and epitaxial and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 19:59
S7	1	("6888156").PN.	USPAT	OR	OFF	2005/05/26 16:11
S8	6	(metal near2 sulfide) and epitaxial and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon)) and (ion or ionic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 17:47
S9	0	(metal near2 sulfide) and epitaxial and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 17:04

## EAST Search History

S10	0	((mns or zns) or (manganese near3 sulf\$3) or (zinc near3 sulf\$3) or (mn near3 s) or (zn near3 s)) and epitaxal and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 17:10
S11	483	((mns or zns) or (manganese near3 sulf\$3) or (zinc near3 sulf\$3) or (mn near3 s) or (zn near3 s)) and epitaxial and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 17:11
S12	385	S11 and (ion or ionic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 20:01
S13	199	S11 and ((ion or ionic) near3 (bond or bonding))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 17:12
S14	42	(((mns or zns) or (manganese near3 sulf\$3) or (zinc near3 sulf\$3) or (mn near3 s) or (zn near3 s)) WITH epitaxial) and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 17:17
S15	7	S14 and ((ion or ionic) near3 (bond or bonding))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 17:13
S16	35	S14 not S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 17:13
S17	192	S13 not S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 17:31

## EAST Search History

S18	57	((mns or zns) or (manganese near3 sulf\$3) or (zinc near3 sulf\$3) or (mn near3 s) or (zn near3 s)) WITH epitaxial) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 17:19
S19	321	((mns or zns) or (manganese near3 sulf\$3) or (zinc near3 sulf\$3) or (mn near3 s) or (zn near3 s)) same epitaxial) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 17:51
S20	341	((mns or zns) or (manganese near3 sulf\$3) or (zinc near3 sulf\$3) or (mn near3 s) or (zn near3 s)) same (epitaxially or epitaxial)) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 17:50
S21	272	S20 and (ion or ionic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 18:00
S22	9	((mns or mgs or Cas) or (manganese near3 sulf\$3) or (magnesium near3 sulf\$3) or (calcium near3 sulf\$3) or (mn near3 s) or (mg near3 s) or (ca near3 s)) same epitaxial) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 17:52
S23	6	S22 and (ion or ionic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 17:54

## EAST Search History

S24	4	((mns or mgs or Cas) or (manganese near5 sulf\$3) or (magnesium near5 sulf\$3) or (calcium near5 sulf\$3) or (mn near5 s) or (mg near5 s) or (ca near5 s)) with epitaxial) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 17:59
S25	15	((mns or mgs or Cas) or (manganese near5 sulf\$3) or (magnesium near5 sulf\$3) or (calcium near5 sulf\$3) or (mn near5 s) or (mg near5 s) or (ca near5 s)) same (epitaxial or epitaxially)) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 18:05
S26	10	S25 and (ion or ionic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 18:00
S27	4	S26 not S23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 18:00
S28	9	S25 not S23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 18:06
S29	5	S28 not S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 18:06

## EAST Search History

S30	1361	((mns or mgs or Cas) or (manganese near3 sulf\$3) or (magnesium near3 sulf\$3) or (calcium near3 sulf\$3) or (mn near3 s) or (mg near3 s) or (ca near3 s)) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocristalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 17:10
S31	187	S30 and ((aluminum near3 nitride) or aln or (al near3 n))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 17:11
S32	105	S31 and (rhodium or iridium or palladium or platinum or ir or rh or pd or pt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/09 15:42
S33	82	S31 not S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/09 15:42
S34	12	(metal near2 sulfide) and epitaxial and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 20:00
S35	524	((mns or zns) or (manganese near3 sulf\$3) or (zinc near3 sulf\$3) or (mn near3 s) or (zn near3 s)) and epitaxial and (((single or mono) near3 crystal) or (monocrystal)) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 20:01
S36	416	S35 and (ion or ionic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 20:01
S37	0	("2002276205").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/29 20:02
S38	1	("20030006406").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/29 20:02

## EAST Search History

S39	2260	((mns or mgs or Cas) or (manganese near3 sulf\$3) or (magnesium near3 sulf\$3) or (calcium near3 sulf\$3) or (mn near3 s) or (mg near3 s) or (ca near3 s)) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocristalline) near4 (si or silicon)) and platinum	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 14:55
S40	46	(((mns or zns) or (manganese near3 sulf\$3) or (zinc near3 sulf\$3) or (mn near3 s) or (zn near3 s)) same (epitaxially or epitaxial)) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocristalline) near4 (si or silicon)) and platinum	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 17:51
S41	2	(((mns or mgs or Cas) or (manganese near3 sulf\$3) or (magnesium near3 sulf\$3) or (calcium near3 sulf\$3) or (mn near3 s) or (mg near3 s) or (ca near3 s)) same epitaxial) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocristalline) near4 (si or silicon)) and platinum	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 18:19
S42	3	(((mns or mgs or Cas) or (manganese near3 sulf\$3) or (magnesium near3 sulf\$3) or (calcium near3 sulf\$3) or (mn near3 s) or (mg near3 s) or (ca near3 s)) same epitaxial) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocristalline) near4 (si or silicon)) and ((metal adj nitride) or (metal adj oxide))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 17:57
S43	8	(((mns or mgs or Cas) or (manganese near3 sulf\$3) or (magnesium near3 sulf\$3) or (calcium near3 sulf\$3) or (mn near3 s) or (mg near3 s) or (ca near3 s)) same epitaxial) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocristalline) near4 (si or silicon)) and ( nitride or oxide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 17:58

## EAST Search History

S44	5	S43 not S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 17:58
S45	15915	((mns or mgs or Cas) or (manganese near3 sulf\$3) or (magnesium near3 sulf\$3) or (calcium near3 sulf\$3) or (mn near3 s) or (mg near3 s) or (ca near3 s)) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/22 17:09
S46	1509	((mns or mgs or Cas) or (manganese near3 sulf\$3) or (magnesium near3 sulf\$3) or (calcium near3 sulf\$3) or (mn near3 s) or (mg near3 s) or (ca near3 s)) and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 17:10
S47	229	S46 and ((aluminum near3 nitride) or aln or (al near3 n))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 17:11
S48	28	S47 and @pd>"20060329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/25 20:02
S49	2	("20040159854").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 18:19
S50	1154	257/200.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 18:20

## EAST Search History

S51	426	257/201.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/25 14:53
S52	20	257/e31.015.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/25 14:53
S53	51	257/e29.094.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/25 14:54
S54	234	257/e29.296.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/25 14:54
S55	60	257/e29.347.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/25 14:54
S56	148	257/e21.603.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/25 14:54
S57	502	S52 S53 S54 S55 S56	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/25 14:54
S58	128	S56 and (((single or mono) near3 crystal) or ((single or mono) near3 crystalline) (monocrystal) or monocrystalline) near4 (si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 14:56

## EAST Search History

S59	108	S58 and ((aluminum near3 nitride) or aln or (al near3 n))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/25 20:03
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